# PINNAL CLE

Project Name

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							(14	-5/8" 2.8mm)		DG uspende				
- H - R - 5 - E - A - M - B - R	atures 063-T6 Extrud lighly reflectiv oom side main -year limited w TL Listed com pproved for di laximum weig uy American / un lengths Av ndigo-Clean a	e = white pair ntance for LEI varranty cove forming to UL ry/damp locat ht is 20 lbs. fo Act compliant ailable to an 1	nted refled D system rs LED, du .1598 in U tion unles or a stand L/8"	river and IS and C s otherv ard 4' fix	CSA 250 in wise noted cture	Canada				Examp	Dile Part #:		Калано-26'-AC4	QUICKSH
EX2I	- N	-	-	-		_	-	-	-		-	-		
	DIRECT SHIELDING	INDIRECT SHIELDING	CRI, CCI SOURCE		ENGTH	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTION		
N											_			
DIRECT	SHIELDING	G		INDIF	ECT SHI	ELDING		SOURC	EQŞ₁		L	ENGTH <sup>2</sup>		
N - None Shielding p				<b>BW</b> - B				_404 TW3 - Tu CL	000K 500K (available a 000K (available a nable White (Bla Custom Lu Custom V	as BIOS) Inco 3) Imens			I Fixture QS, us Row QS,	
				_							_			
MOUN	ΓING³			VOLT	AGE			DRIVER	ł		с	IRCUITIN	G	
_ACJI _ACS AC5G AC5JI SQG SQJB	a (M)AC to ( B - (M) AC to J T - (M) AC to J T - (M) AC to 5 a 5" Non-Po B - 5" Non-Po B - 5" Square C - 5" Square C Il Mount QS <sub>↓</sub> pg. 3	I Box Qડ્ડੇ Structure Qડ્ડે wer Canopy wer Canopy Canopy	*	<b>U</b> - Un <b>1</b> - 120 <b>2</b> - 277 <b>3</b> - 347 <i>Voltage</i>	V QS_ V QS_ V	thru 277V) QS		OL3 - Os EE1 - eld ES1 - eld LH1- Lut L51 - Lut PL2 - Ad PR1 - Ac	rram (1%, 0-10v, st rram 347v (10%, 0 oLED ECOdrive loLED SOLOdriv ron Hi-lume (1% rron 5-Series (59 vance Xitanium vance Xitanium n-Dimming $QS_4$	0-10v) e (1%, 0-10v) ve (0%, 0-10v) , EcoSystem) &, EcoSystem) (1%, 0-10v) QS SR	E S, Ci		cuit cy (entire fixture) ht (entire fixture)	
BATTER	RY & EMERO	GENCY <sup>4</sup>		FINIS	н			FIXTUR	E OPTIONS⁵		с	ONTROLS	S <sup>6</sup>	
_ <b>IL -</b> lota _ <b>E -</b> Emer _ <b>N -</b> Nigh _ <b>L -</b> Life S _ <b>G -</b> Bodi	dine 10W Integ 10W Integral ( gency Sectior t Light Section Safety Section	2 <u>5,</u> 1 1		S - Met BL - Te BR - Br GR - Gr	raphite ustom Colo	ck QS,		<b>QS -</b> Quic Fixture Opt	kShip QS <sub>★</sub> ions pg. 5		DI EA SM W VI VI EM	LMFS - Wat ASYS - Phili NSLM - Osra VLX - Eator DO - Lutron RF - Lutron	tstopper DLM tstopper LLLC ps EasySense am Sensilum (v n Wavelinx (wire Vive Sensor (w Vive Connected ted (wireless)	(wireless) (wireless) vireless) less) ireless)

When specifying SOURCE the first \_ is for specifying either 8 - 80CRI, 9 - 90CRI or B - Bios. The ending \_ are for specifying output, example HO - High Output. When specifying BIOS use B and then specify color temperature, either 3500K or 4000K, and output, example B35HO - BIOS 3500K High Output. See output charts for more information. BIOS dynamic available, please contact factory for more information.<sup>2</sup>Individual fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1/8'' increments <sup>3</sup>Specify AC Cable: Standard single AC = AC or Movable AC = MAC; Specify AC length standard AC is 48''; Specify grid: G1=15/16'', G9=9/16'', GS=Screw Slot. Example: AC48G1. MAC option not available with HEA - Ascent Indirect Sheidling option. <sup>4</sup>Enter quantity for Battery and Emergency, Example 2PL. <sup>5</sup>QS must be used in fixture options section of part number to qualify. <sup>6</sup>Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information. Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

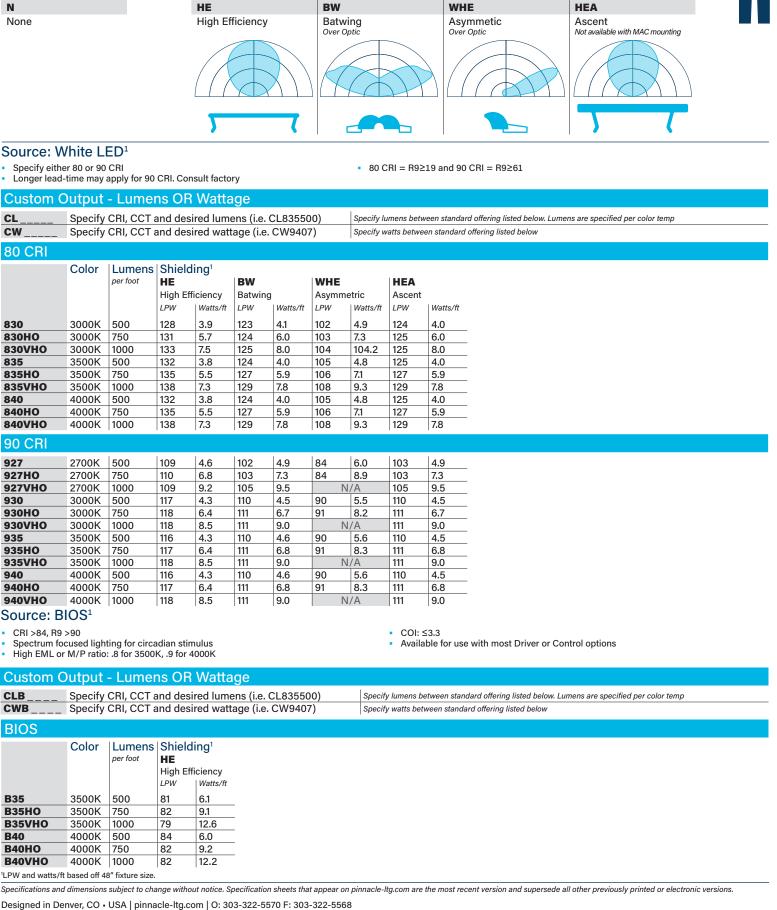
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EX2I\_LED\_SPEC\_MARCH2021

A brand of **Grand** 

**Direct Shielding** 





EDGE EX2

Indirect Shielding

EX2I\_LED\_SPEC\_MARCH2021



# Source: Blanco<sup>1</sup>

- CRI >90, R9 >92
- 3 Channel tunable white for precise black body curve CCT Allows for high color consistency between fixtures

Self-commissioning with Wattstopper DLM integrated controls

Approved for dry/damp location unless otherwise noted

Maximum fixture weight is 20 lbs for a standard 4' fixture

Wall Mount - ADA Compliant, bracket is 1/2" off wall

MAC options not available with HEA lens option

from the wall as a standard

Refer to installation instructions during installation at the job site

AC\_\_GS and MAC\_\_GS - works with screw slot and bolt slot grid ceiling types

For a wall mounted fixture with an indirect asymmetric lens, light will be directed away

- Requires Control Ordering Code B3LM (pg. 6)
- Requires Drive Ordering Code EC2 (pg. 4)

# Blanco 3 Tunable White (TW3) Range | Shielding<sup>1</sup>

		High Efficiency								
тwз	2700- 6500K	Lumens/ft 835		Watts/ft 8.5						

<sup>1</sup>LPW and watts/ft based off 48" fixture size.

#### Length

 For Continuous Runs, add 3/16" (4.7mm) for each end plate or 3/8" (9.5mm) to the overall length of the row

BIOS and Blanco3 are only available in foot lengths

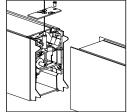
2	3	4	5	6	7	8	-
Indiv. Fixture 24-3/8" (619.1mm) 36-3/	/8" (934.8mm)	Indiv. Fixture 8" (1228.7mm) 60-3/8	Indiv. Fixture 8" (1533.5mm)	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal overall row length to the 1/8" Longer lead- time may apply for lengths to the 1/8" Consult factory.
			72-3/8	8" (1838.3mm)			
				84-3/	′8″ (2143.1mm)		
					96-3/	8" (2447.9mm)	
						S	pecify to the 1/8"

## Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Maximum recommended movable mounting locations are 12" from end of 4' fixture and 18" from end of 8' fixture
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies and pendants match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details.

ACG1	Aircraft Cable 1" (15/16") T-Bar
ACG9	Aircraft Cable 9/16" T-Bar
ACGS	Aircraft Cable Screw Slot T-Bar
ACJB	Aircraft Cable Junction Box
ACST	Aircraft Cable Structure
AC5_G_	Aircraft Cable 5" (127mm) Non-Power Canopy
AC5_JB	Aircraft Cable 5" (127mm) Non-Power Canopy
SQG_	Aircraft Cable 5" (127mm) Square Canopy
SQJB	Aircraft Cable 5" (127mm) Square Canopy
MACG1	Moveable AC 1" (15/16") T-Bar
MACG9	Moveable AC 9/16" T-Bar
MACGS	Moveable AC Screw Slot T-Bar
MACJB	Moveable AC Junction Box
MACST	Moveable AC Structure
MAC5_G_	Moveable AC 5" (127mm) Non-Power Canopy
MAC5_JB	Moveable AC 5" (127mm) Non-Power Canopy
MSQG_	Moveable AC 5" (127mm) Square Canopy
MSQJB	Moveable AC 5" (127mm) Square Canopy
WA	Wall Mount

#### Straight EDGE Joint System



- The Straight EDGE Joint comes standard for all runs.
- Two connection points one to cinch fixtures together, the other to perfectly align all fixtures in a run.
- Factory-installed light shields on both sides of the fixture ensure no light leaks.
   Patented.
- Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions.

Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 EX2I\_LED\_SPEC\_MARCH2021 AC - Single Aircraft Cable MAC - Movable Y Aircraft Cable WA - Wall Mount EDGE EX21

#### Voltage

Some EX2I configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt

#### Driver

- Standard Driver Option = OL2
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide
- Some EX2I configurations will not accommodate all driver options; consult with factory

OL2	Osram Optotronic 1%, 0-10v, nominal 1% dimming range
OL3	Osram Optotronic 347v 10%, 0-10v, requires 347v option
OL5	Osram Optotronic 1%, 0-10v, AUX
OD1	Osram Optotronic 1%, DEXAL
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE6	eldoLED ECOdrive 1%, for nLight Air Wireless
ES1	eldoLED SOLOdrive 0%, 0-10v Logarithmic
ES6	eldoLED SOLOdrive 0%, for nLight Air Wireless
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
L51	Lutron 5-Series 5%, EcoSystem, LDE5
PL2	Advance Xitanium 1%, 0-10v
PR1	Advance Xitanium SR, requires EASY, VDO, or VRF
EC2	Constant Voltage LED driver, 120v or 277v required
ND	Non-Dimming

## How to Specify Circuiting, Battery and Emergency

# 1

- Select fixture circuiting from options below
- Some EX2I configurations will not accommodate all circuiting options, consult with factory

## Circuiting

1	Single Circuit
М	Multi Circuit
E	Emergency Circuit only
N	Night Light Circuit only



Battery and emergency section options are available in addition to fixture circuit Select battery and emergency section options below; factory shop drawing required Some EX3I configurations will not accommodate all circuiting options, consult with factory

#### Battery and/or Emergency If Required



No battery or specific emergency section required

#### Battery

- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button location dependant on configuration, consult factory
- No battery option available for 2' lengths
- Entire direct fixture housing is on battery for lengths up to 5'
- Half of direct fixture is on battery for 6' or 8' housing lengths
- For more battery options available, see Pinnacle Resource Guide

0	No battery
_PL	Bodine 10w Integral
_IL	lota 10w Integral

#### Emergency

- Select emergency section type if required, indicate total QTY. Example 1E
- · Combine battery and emergency section ordering codes if both options are selected

- For Approximate Battery Lumen Output
- Multiply battery wattage X fixture LPW shown on Lumen Table
- 92.3 (LPW) x 10 (watts) = 923 battery lumen output

#### Battery OR Emergency Ordering Examples

- Single circuit, 10w Integral Battery Ordering Code: 1-1PL
- Emergency only, 10w Integral Battery

Single circuit, GTD required

- Ordering Code: E-1PL Ordering Code: 1-1G
- E
   Emergency circuit section
   Combination Section Ordering Examples

   \_N
   Night Light circuit section
   Single circuit, (1) 10w battery, (1) emergency section
   Ordering Code: 1-1PL1E

   \_L
   Life Safety circuit section NO THROUGH WIRE
   Multi circuit, (2) 10w battery, (2) emergency sections
   Ordering Code: M-2PL2E

   \_G
   Bodine GTD, Generator Transfer Device section
   Single circuit, (1) night light section
   Ordering Code: 1-1N

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## Finish

Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes

EDGE FX2

Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)
S	Metallic Silver (grey cord/silver canopy)
BL	Textured Black (black cord/black canopy)
BR	Bronze (white cord/bronze canopy)
GR	Graphite (white cord/graphite canopy)
CC	Custom Color (white cord/color match canopy)

#### **Fixture Options**

Additional options to enhance the fixture and finish of the product

Quick Ship

Specify CC-C to match housing. If not specified, canopy will be standard matte white

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QS
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#### **Quick Ship**

10-Day	Shielding CRI, CCT & Output Mounting			Voltage		Driver		Circuiting		Battery		Finish		
BW peratures, all lumen (M)AC48JB (M)AC to J-BOX (120-277) PL2 Advance Xitanium Circuit _IL lota 10w S	HE BW	packages	(M)AC48JB (M)AC48ST	(M)AC to J-BOX (M)AC to Struc- ture	U 1 2	(120-277) 120V	PL2 LH1	Advance Xitanium 0-10v, 1% Lutron LDE1	1 E N	Emergency	0 _IL		W S BL	White Silver Black

All lengths and continuous rows up to 1,000 ft OR 150 individual fixtures. Black QuickShip only available in 4', 6', and 8' individual lengths. Consult factory for larger projects.

#### Controls

- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)

 Contact factory for any non-standard configurations for layout, placement, or EM options

- Pinnacle Lighting fixtures ship technology ready; comissioning by others
- One drop/sensor per run typical, contact factory for more information

	Solution		Network/Sensor	Connection	<b>Required Drivers</b>	Limitation
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, one RJ45 ports	Any 0-10v	Not available with Battery
DLMFS	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1, 0-10v	0-10v requires interface
EASYS	Philips EasySense	SNS-200	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
SNSLM	Osram Sensilum	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
WLVX	Eaton Wavelinx	SWPD1, NSP3IVMVDC1	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
VDO	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
VRF	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt
ENLI	Enlighted	SU-5E-IOT, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
ENLC	Enlighted	SU-5E-CL, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt

# **Controls: Tunable White**

- Pinnacle Lighting offers easy to specify tunable white solutions for integrated building control solutions or standalone controls
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
   Contact factory for any non-standard configurations for layout or placement
- Pinnacle Lighting fixtures ship technology ready; comissioning by others

	Solution	Components	Network/Sensor	Connection	RQD Drivers	RQD LED	RQD Controls	Limitations
B3LM	Legrand Wattstopper Blanco 3	BLM3-DLM	Digital Lighting Management (DLM)	Wired, two RJ45 ports	EC2	TW3	B3LM	Not available with 347 volt

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60 52

143 138 137

239 236 235

350 345 342

463 460 462

582 581 582

705 703

832 829 829

960 955 952

1083 1077

1201 1194

1311 1302

1404 1397

1484 1478

1588 1587 1586

1622

1541

1622 1622

67.5 90

47

704

1077

1192

1302

1395

1476

1540

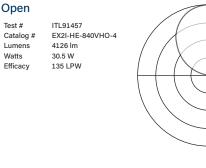
1614

0

Suspended Indirect Linear



#### **Photometrics**



	1622	Canc	lela D	Distrik	outior	า
	1217	Vert Angle	Horizor	ntal Ang	e	
	811		0	22.5	45	6
_		90	0	0	0	0
	406	95	64	63	60	5
		100	142	146	143	1
		105	236	238	239	2
	$ \top / / / $	110	343	343	350	3
_		115	457	456	463	4
		120	583	576	582	5
_		125	709	699	705	7
		130	843	829	832	8
		135	970	956	960	9
		140	1096	1080	1083	1
		145	1215	1198	1201	1
		150	1323	1304	1311	1
		155	1416	1397	1404	1
		160	1493	1477	1484	1
		165	1551	1541	1545	1
		170	1591	1587	1588	1

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions.

1615 1614 1614

1614

1622 1622

175

180

## Applications & Certificates

Construction: 6063-T6 Extruded aluminum housing. Highly reflective steel white painted reflector

Shielding: Diffuse snap-in acrylic lens, removable for maintenance.

Mounting: Aircraft cable and wall mount available. Select from 2 aircraft cable options. Select the straight aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers or the moveable adjustable Y-cable mount. The Y-Cable design allows for adjustable mounting locations. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 20 lbs. for a standard 4' fixture.

White LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' or 3' lengths may have a greater wattage deviation. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. Lifetime Projection L70 = 146,500 hours and L90 = 45,000 hours. MacAdam 3-Step Ellipses. Not all products are Lighting Facts listed. For all available IES files, please visit our website at pinnacle-ltg. com. Three lumen packages available. Standard, High (HO) and Very High (VHO) . Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

BIOS LED: Spectrum focused lighting for circadian stimulus. EML or M/P ratio: .8 for 3500K, 9 for 4000K, COI >3.0. Not all lumen packages available. Three lumen packages available. Standard, High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page

Tunable White LED: Blanco 3; 3 Channel tunable white for precise black body curve CCT. Self-commissioning with Wattstopper DLM integrated controls. Custom lumen output and color temperature configurations require use of controls.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL3 in Driver section when 347 volt (3) is selected. Some EDGE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Osram 0-10V, 1% = OL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 122°F/50°C. For more driver options, see Pinnacle Resource Guide. Some EDGE configurations will not accommodate all driver options

Circuiting: Select from single circuit (1), Multi circuit - For multiple circuiting and zone

control, requires factory shop drawing (M), Emergency circuit (E), Life Safety (L) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some EDGE configurations will not accommodate all circuiting options; consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button location dependant on configuration, consult factory. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes or for additional custom color and finish options.

Controls: DLM utlizes wired network connections for digital control through switching and dimming. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PIR using eldoLED LED drivers. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PDT using eldoLED LED drivers. nLight Air rIO module provides wireless control using eldoLED LED drivers. EasySense sensor provides daylight harvesting and PIR occupancy detection using the SR LED driver; the Philips app provides advanced configurations. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. Wavelinx Connected Lighting sensor provides wireless control and daylight harvesting using 0-10V LED drivers. Lutron Vive sensor provides wireless control, daylight harvesting and PIR occupancy detection using DEXAL or SR LED drivers. Lutron Vive module provides wireless control using DEXAL or SR LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for IOT platform using 0-10v LED drivers. Enlighted Smart Sensor provides multi-functionality including daylight harvesting and PIR occupancy; for Connected platform using 0-10v LED

Labels: ETL listed conforming to UL 1598 and CSA 250. Standard, HO and VHO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 20lbs per 4' fixture.

#### **Buy American Act Compliant**

Warranty: EDGE LED offered with a 5-year limited warranty. Covers LED, driver and fixture.

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